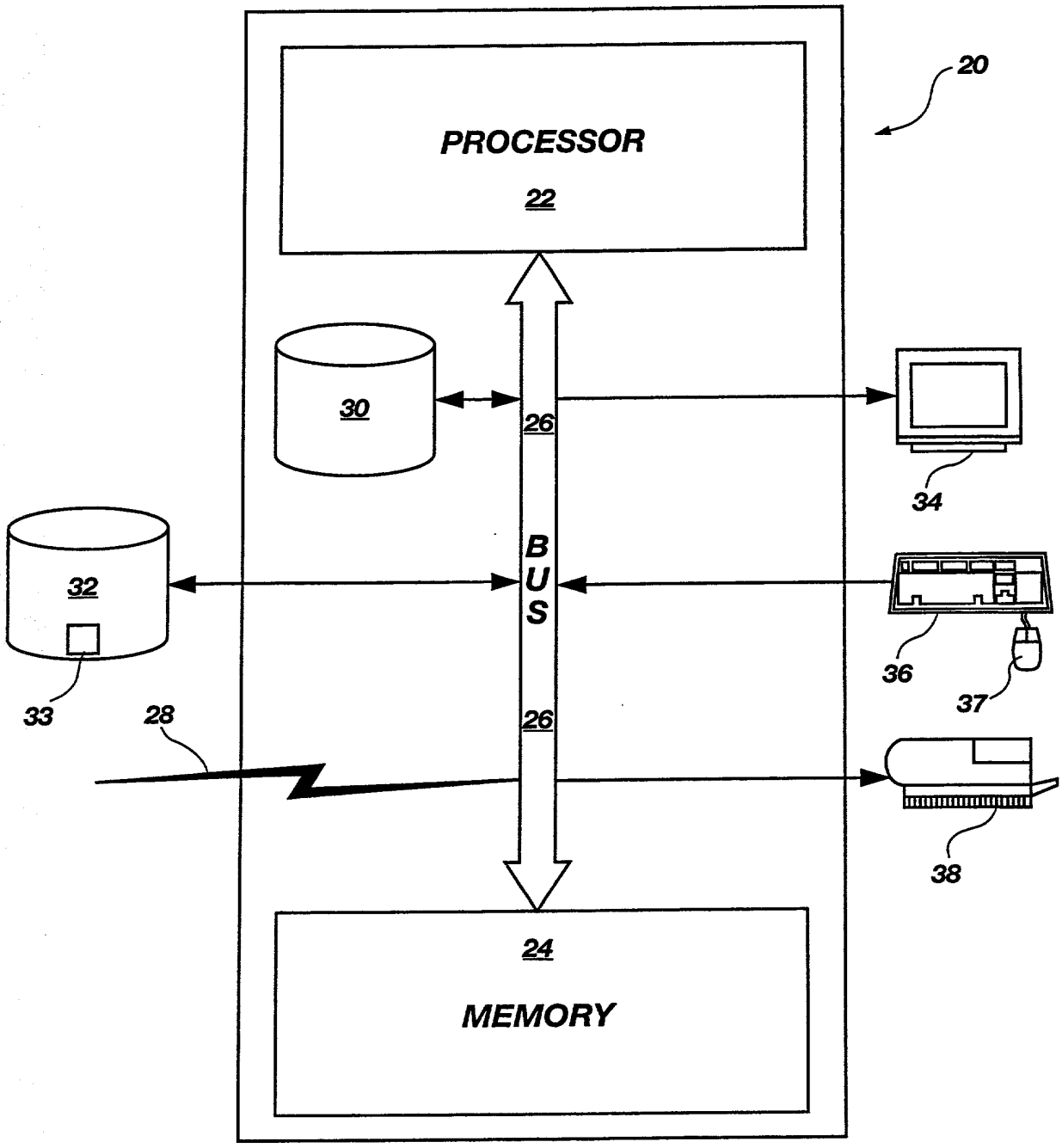

Fig. 1

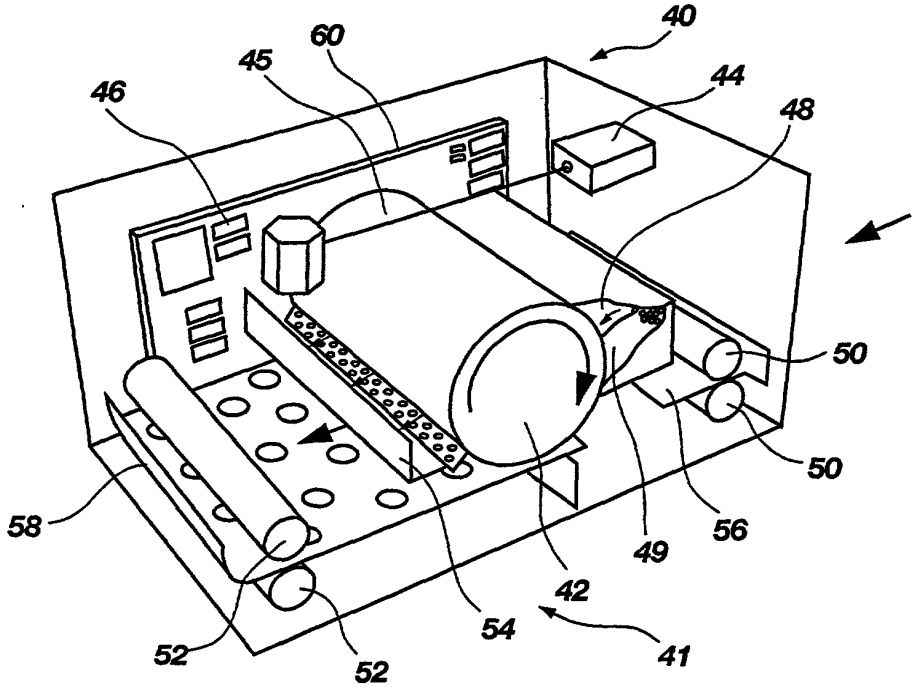
40
60
45
46
44
48
50
50
58
56
49
42
54
41
52
52

Fig. 2

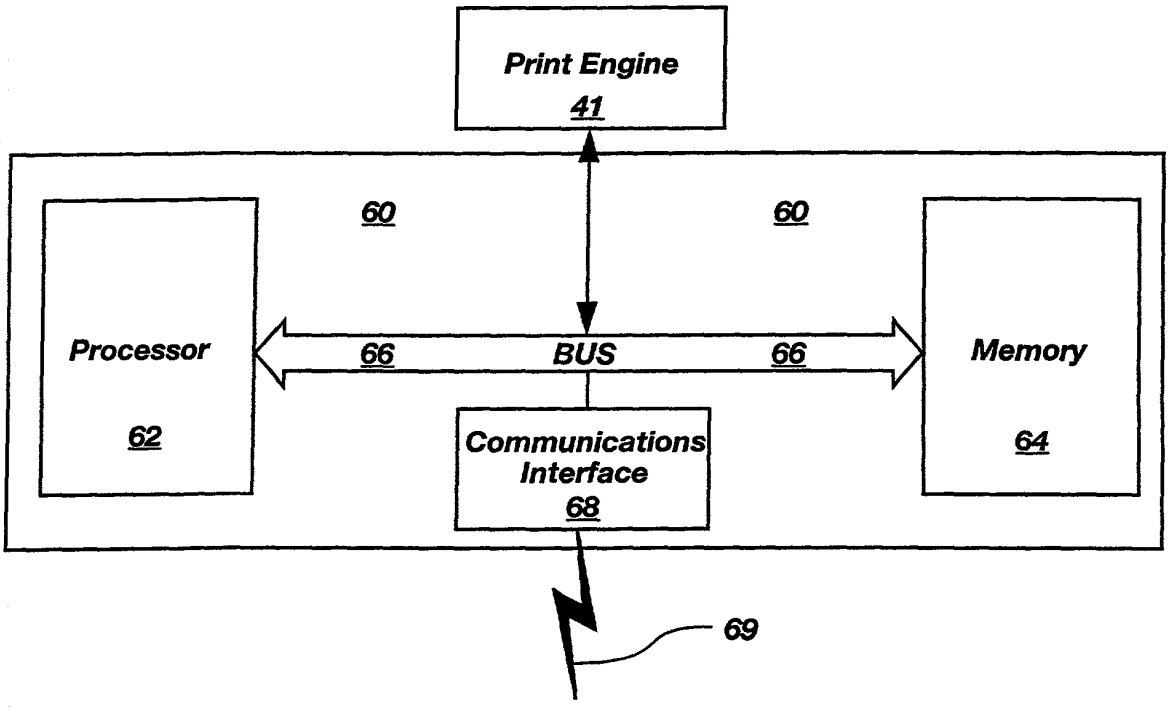
Print Engine
41
60
60
Processor
62
66
BUS
66
Memory
64
Communications Interface
68
69

Fig. 3

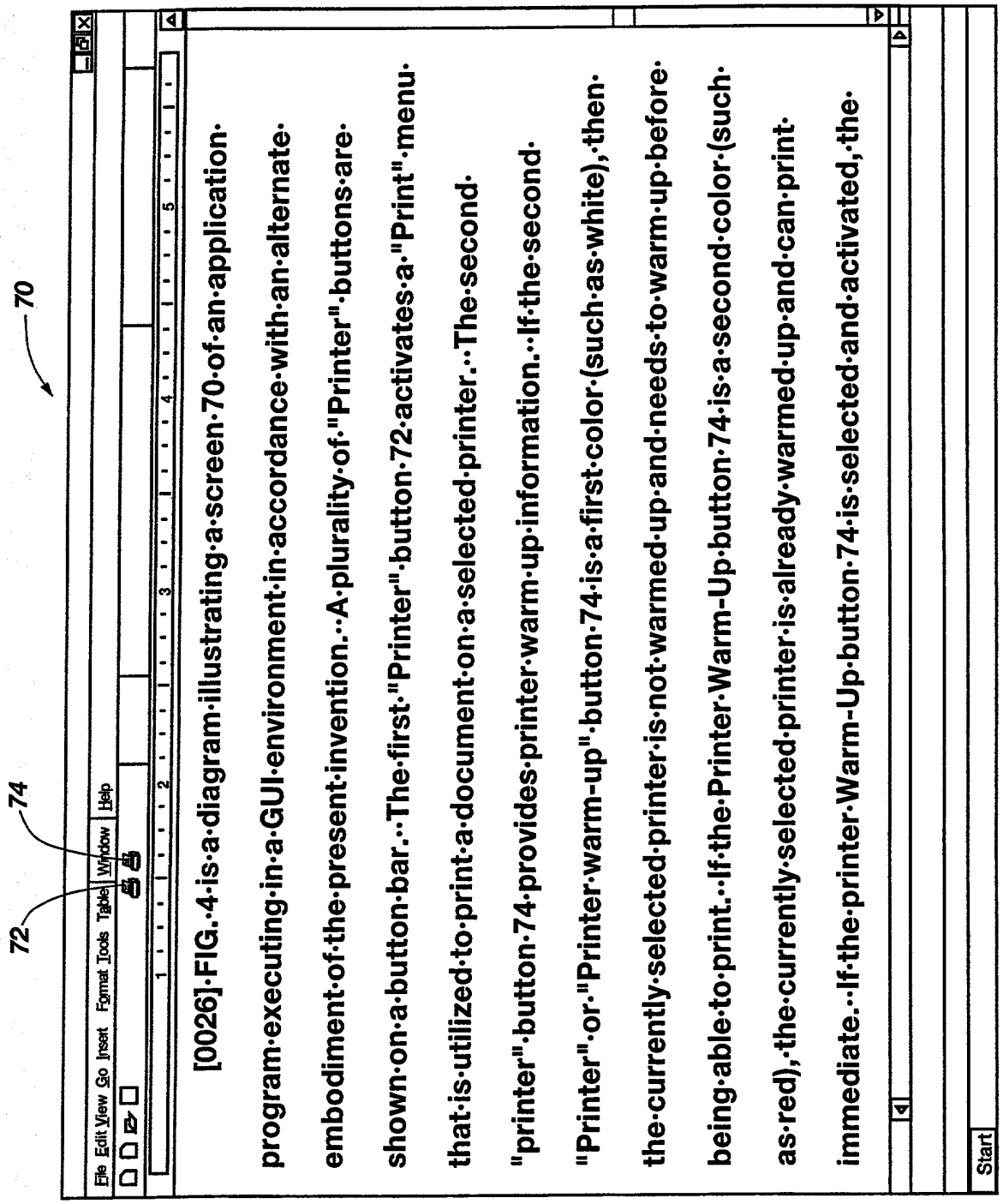
70
72
74
File Edit View Go Insert Format Tools Table Window Help
[0026] FIG. 4 is a diagram illustrating a screen 70 of an application program executing in a GUI environment in accordance with an alternate embodiment of the present invention. A plurality of "Printer" buttons are shown on a button bar. The first "Printer" button 72 activates a "Print" menu that is utilized to print a document on a selected printer. The second "printer" button 74 provides printer warm-up information. If the second "Printer" or "Printer warm-up" button 74 is a first color (such as white), then the currently selected printer is not warmed up and needs to warm up before being able to print. If the Printer Warm-Up button 74 is a second color (such as red), the currently selected printer is already warmed up and can print immediate. If the printer Warm-Up button 74 is selected and activated, the
Start

Fig. 4

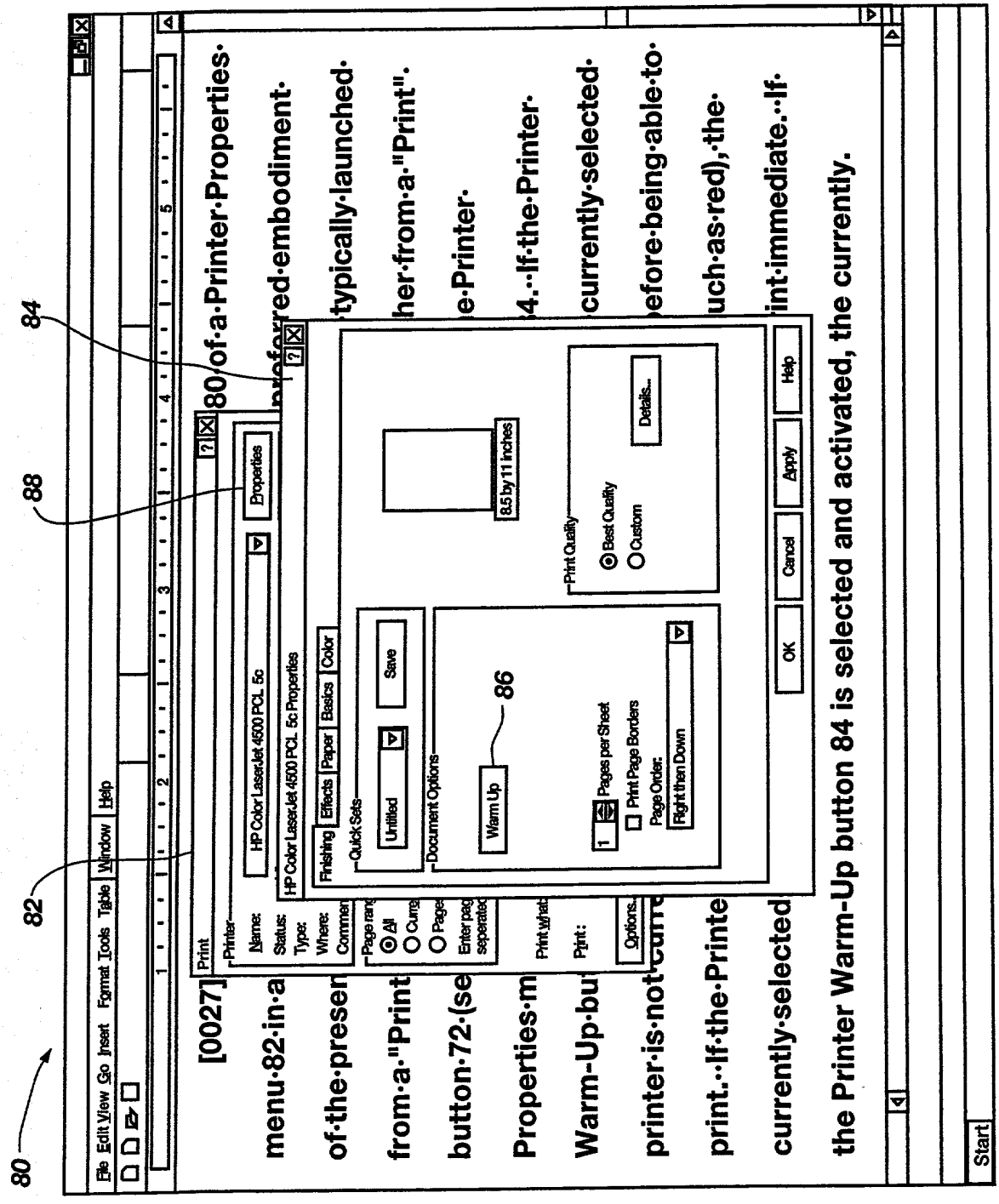
80
82
84
88
86
[0027] ... 80 of a Printer Properties ... preferred embodiment ... typically launched ... her from a "Print". ... e Printer ... 4. If the Printer ... currently selected ... efore being able to ... uch as red), the ... int immediate. If ... the Printer Warm-Up button 84 is selected and activated, the currently.
File Edit View Go Insert Format Tools Table Window Help
Print
Printer
Name:
Status:
Type:
Where:
Comment
HP Color LaserJet 4500 PCL 5c
Properties
HP Color LaserJet 4500 PCL 5c Properties
Finishing
Effects
Paper
Basics
Color
Quick Sets
Untitled
Save
Document Options
Warm Up
Pages per Sheet
Print Page Borders
Page Order:
Right then Down
8.5 by 11 inches
Print Quality
Best Quality
Custom
Details...
OK
Cancel
Apply
Help
Options...
Start

Fig. 5

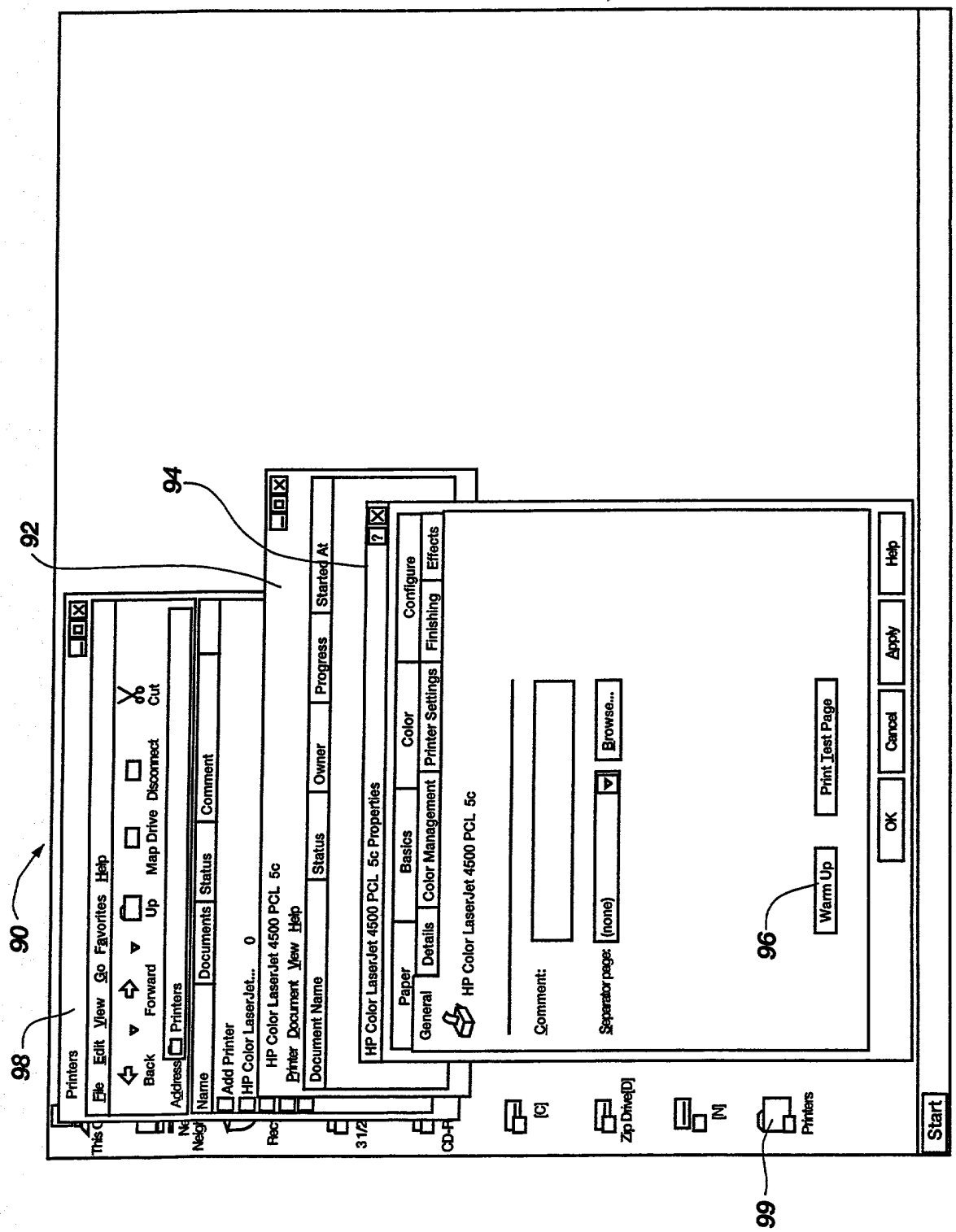
90
92
94
96
98
99
Printers
File Edit View Go Favorites Help
Back Forward Up Map Drive Disconnect Cut
Address Printers
Name Documents Status Comment
Add Printer
HP Color LaserJet... 0
HP Color LaserJet 4500 PCL 5c
Printer Document View Help
Document Name Status Owner Progress Started At
HP Color LaserJet 4500 PCL 5c Properties
Paper Basics Color Configure
General Details Color Management Printer Settings Finishing Effects
HP Color LaserJet 4500 PCL 5c
Comment:
Separator page: (none)
Browse...
Warm Up
Print Test Page
OK Cancel Apply Help
[C:]
Zip Drive[D:]
[N:]
Printers
Start

Fig. 6

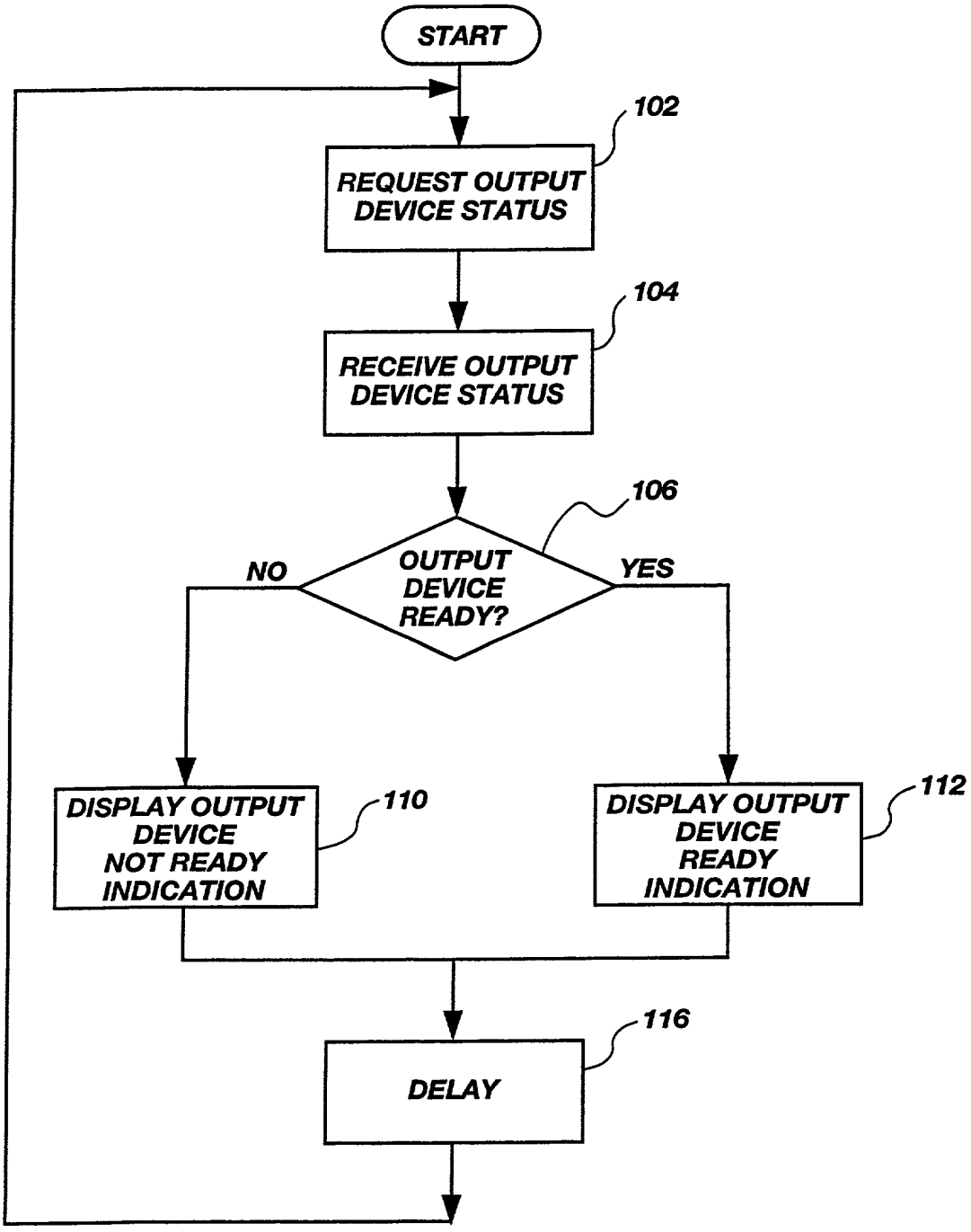
START
102
REQUEST OUTPUT DEVICE STATUS
104
RECEIVE OUTPUT DEVICE STATUS
106
OUTPUT DEVICE READY?
NO
YES
DISPLAY OUTPUT DEVICE NOT READY INDICATION
110
DISPLAY OUTPUT DEVICE READY INDICATION
112
DELAY
116

Fig. 7